

SEQUENCE LISTING

<110> Urry, Dan

<120> Acoustic Absorption Polymers and Their Methods of Use

<130> BERL025/01US

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<141> 2000-12-20

<160> 47

<170> PatentIn version 3.0

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(5)

<223> This is a synthetic sequence.

<400> 1

Val Pro Gly Val Gly

1

5

<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(4)

<223> This is a synthetic sequence.

<400> 2

Val Pro Gly Gly

1

<210> 3

<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> PEPTIDE
<222> (1)..(4)
<223> This is a synthetic sequence.

<400> 3

Gly Gly Val Pro
1

<210> 4
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(4)
<223> This is a synthetic sequence.

<400> 4

Gly Gly Phe Pro
1

<210> 5
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<221> PEPTIDE
<222> (1)..(4)
<223> This is a synthetic sequence.

<400> 5

Gly Gly Ala Pro
1

<210> 6

<211> 5
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 <213> Artificial Sequence

<220>
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 <222> (2)..(4)
 <223> Residue at position 2 is V, E, F, Y or K
 Residue at position 4 is V, E, F or I

<400> 6

Gly Xaa Gly Xaa Pro
 1 5

<210> 7
 <211> 6
 <212> PRT
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<220>
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 <222> (1)..(6)
 <223> This is a synthetic sequence.

<400> 7

Ala Pro Gly Val Gly Val
 1 5

<210> 8
 <211> 35
 <212> PRT
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<220>
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 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 8

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
 20 25 30

Gly Val Pro
 35

<210> 9
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 9

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Glu Gly Phe Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Val Gly Phe Pro Gly Val
 20 25 30

Gly Val Pro
 35

<210> 10
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 10

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Glu Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
 20 25 30

Gly Val Pro

35

<210> 11
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 11

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5				10					15		

Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 12
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 12

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Glu	Gly	Val	Pro	Gly
1				5				10					15		

Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 13
 <211> 65

<212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(65)
 <223> This is a synthetic sequence.

<400> 13

Gly	Val	Gly	Ile	Pro	Gly	Phe	Gly	Glu	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5					10					15	
Val	Gly	Val	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Phe	Gly	Ile	Pro	Gly	Val
			20					25					30		
Gly	Ile	Pro	Gly	Phe	Gly	Glu	Pro	Gly	Glu	Gly	Phe	Pro	Gly	Val	Gly
		35					40					45			
Val	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Phe	Gly	Ile	Pro	Gly	Val	Gly	Val
	50					55					60				

Pro
 65

<210> 14
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 14

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Lys	Gly	Phe	Pro	Gly
1				5					10					15	
Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Phe	Gly	Phe	Pro	Gly	Val
			20					25					30		
Gly	Val	Pro													
		35													

<210> 15
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
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 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 15

Gly Val Gly Val Pro Gly Val Gly Phe Pro Gly Lys Gly Phe Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Val Gly Phe Pro Gly Val
 20 25 30

Gly Val Pro
 35

<210> 16
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 16

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
 1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro Gly Val
 20 25 30

Gly Val Pro
 35

<210> 17
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 17

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Lys	Gly	Phe	Pro	Gly
1				5				10					15		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			20					25					30		
Gly	Val	Pro													
		35													

<210> 18
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)
 <223> This is a synthetic sequence.

<400> 18

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly
1				5				10					15		
Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Val
			20					25					30		
Gly	Val	Pro													
		35													

<210> 19
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(35)

<223> This is a synthetic sequence.

<400> 19

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 20

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(35)

<223> This is a synthetic sequence.

<400> 20

Gly	Val	Gly	Val	Pro	Gly	Val	Gly	Phe	Pro	Gly	Glu	Gly	Phe	Pro	Gly
1				5					10					15	

Val	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Lys	Gly	Val	Pro	Gly	Val
			20					25					30		

Gly	Val	Pro
		35

<210> 21

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> VARIANT

<222> (4)..(4)

<223> Residue at position 4 is modified to have
an electroresponsive side chain

<400> 21

Val Pro Gly Xaa Gly
1 5

<210> 22

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(5)

<223> This is a synthetic sequence.

<400> 22

Ile Pro Gly Val Gly
1 5

<210> 23

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> VARIANT

<222> (6)..(6)

<223> Residue at position 6 is S, T or Y

<400> 23

Gly Val Gly Val Pro Xaa Gly Val Gly Val Pro
1 5 10

<210> 24

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<221> VARIANT

<222> (2)..(4)

<223> Residue at position 2 is V, E, F, Y, K, S or T

Residue at position 4 is V, E, F, I, S, T or Y

At least one of residues at positions 2 or 4 is S, T or Y

<400> 24

Gly Xaa Gly Xaa Pro
1 5

<210> 25

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(30)

<223> This is a synthetic sequence.

<400> 25

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Lys Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Phe Pro Gly Phe Gly Phe Pro
20 25 30

<210> 26

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_structure

<222> (1)..(66)

<223> This is a synthetic sequence.

<400> 26

gaggatccag gcgttgggggt accgggtggt ggcgatccgg gtaaagggtgt cccgggggttg
60

gtgtgc
66

<210> 27

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_structure

<222> (1)..(66)

<223> This is a synthetic sequence.

<400> 27

ctggatccaa cgcctgggaa tccgaaaccc ggaaagccta caccgggcac accaacgccc
60

gggaca

66

<210> 28

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(10)

<223> This is a synthetic sequence.

<400> 28

Gly Val Gly Val Pro Gly Tyr Gly Val Pro
1 5 10

<210> 29

<211> 45

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(45)

<223> This is a synthetic sequence.

<400> 29

Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly
1 5 10 15

Val Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Glu Gly Ile Pro Gly Val Gly Ile Pro
 35 40 45

<210> 30
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> This is a synthetic sequence.

<400> 30

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 20 25 30

<210> 31
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> This is a synthetic sequence.

<400> 31

Gly Glu Gly Ile Pro Gly Val Gly Ile Pro Gly Glu Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 20 25 30

<210> 32
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(45)
 <223> This is a synthetic sequence.

<400> 32

Gly	Val	Gly	Ile	Pro	Gly	Lys	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
1				5				10					15		
Val	Gly	Ile	Pro	Gly	Lys	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val
			20				25					30			
Gly	Ile	Pro	Gly	Lys	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro			
		35				40						45			

<210> 33
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> This is a synthetic sequence.

<400> 33

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Lys	Gly	Ile	Pro	Gly
1				5				10					15		
Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro		
			20				25					30			

<210> 34
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> This is a synthetic sequence.

<400> 34

Gly Lys Gly Ile Pro Gly Val Gly Ile Pro Gly Lys Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 20 25 30

<210> 35

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(110)

<223> This is a synthetic sequence.

<400> 35

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
 35 40 45

Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
 50 55 60

Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
 65 70 75 80

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 85 90 95

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 100 105 110

<210> 36

<211> 110

<212> PRT

<213> Artificial Sequence

<220>

<221> VARIANT
 <222> (107)..(107)
 <223> Residue at position 107 is associated with an SO4 ion

<400> 36

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Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1           5           10          15
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
          20          25          30
Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
          35          40          45
Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile
          50          55          60
Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro
65          70          75          80
Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
          85          90          95
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
          100         105         110

```

<210> 37
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (1)..(60)
 <223> This is a synthetic sequence.

<400> 37

```

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1           5           10          15
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
          20          25          30
Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly

```



```

          35              40              45
Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
  50              55              60

```

```

<210> 38
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<221> VARIANT
<222> (58)..(58)
<223> Residue at position 58 is associated with an SO4 ion

```

```

<400> 38

```

```

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1              5              10              15
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
          20              25              30
Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly
          35              40              45
Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
  50              55              60

```

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<210> 39
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<221> PEPTIDE
<222> (1)..(45)
<223> This is a synthetic sequence.

```

```

<400> 39

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```

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
1              5              10              15
Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
          20              25              30

```

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 35 40 45

<210> 40
 <211> 45
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> PEPTIDE
 <222> (1)..(45)
 <223> This is a synthetic sequence.

<400> 40

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val
 20 25 30

Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 35 40 45

<210> 41
 <211> 30
 <212> PRT
 <213> Artificial Sequence

 <220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> This is a synthetic sequence.

<400> 41

Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly Val Gly Ile Pro Gly
 1 5 10 15

Val Gly Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly Ile Pro
 20 25 30

<210> 42
 <211> 30
 <212> PRT

<213> Artificial Sequence

<220>

<221> VARIANT

<222> (28)..(28)

<223> Residue at position 28 is associated with an SO4 ion

<400> 42

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly
1				5				10					15		

Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly	Ile	Pro
		20					25					30	

<210> 43

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<221> PEPTIDE

<222> (1)..(15)

<223> This is a synthetic sequence.

<400> 43

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly	Ile	Pro
1				5				10					15	

<210> 44

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<221> VARIANT

<222> (13)..(13)

<223> Residue at position 13 is associated with an SO4 ion

<400> 44

Gly	Val	Gly	Ile	Pro	Gly	Val	Gly	Ile	Pro	Gly	Tyr	Gly	Ile	Pro
1				5				10					15	

<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> PEPTIDE
<222> (1)..(10)
<223> This is a synthetic sequence.

<400> 45

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1 5 10

<210> 46
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> VARIANT
<222> (9)..(9)
<223> Residue at position 9 is associated with an SO4 ion

<400> 46

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1 5 10

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<221> VARIANT
<222> (9)..(9)
<223> Residue at position 9 is associated with an MgSO4 ion

<400> 47

Ile Pro Gly Val Gly Ile Pro Gly Tyr Gly
1 5 10

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